



**FIG.1**

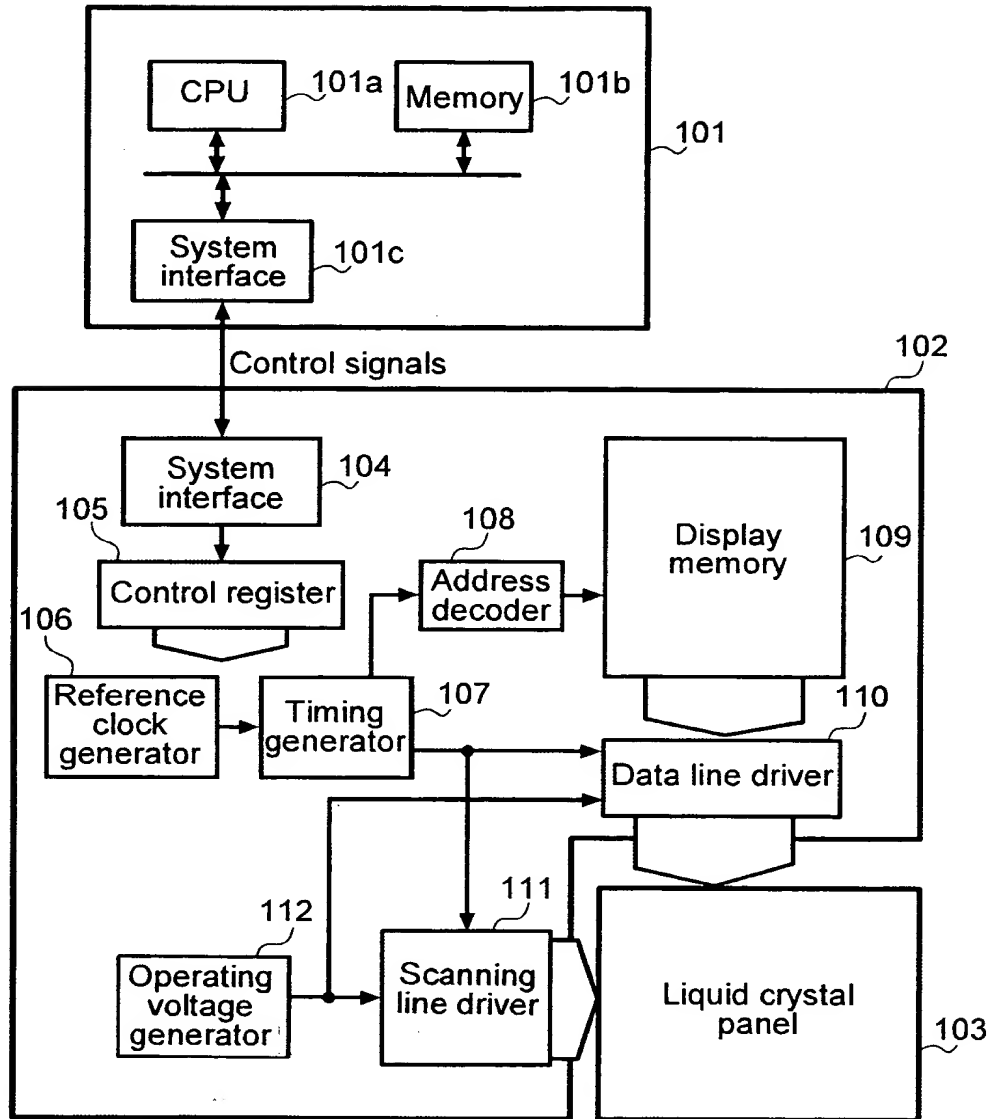
	212 NO. of active lines (M)	214 Division ratio (R)	216 No. of reference clocks per scanning period (N)	218 Frame frequency
220	160	1 222	18 224	69.4 Hz 226
	130	1	22	69.9 Hz
	100	1	28	71.4 Hz
230	70	2 232	20 234	71.4 Hz 236
	40	4	18	69.4 Hz
	10	16	18	69.4 Hz
	160	1	21	59.5 Hz
	130	1	26	59.2 Hz
	100	1 242	33 244	60.6 Hz
240	70	2	24	59.5 Hz 246
	40	4	21	59.5 Hz
	10	16	21	59.5 Hz

**FIG.3**

Signal name	Meaning	"Low"	"High"
CS	chip select	accessible	inaccessible
RS	register address/data selection	address	data
E	data write/read activation	active	inactive
RW	data write/read selection	write	read
D	interactive data	—	—

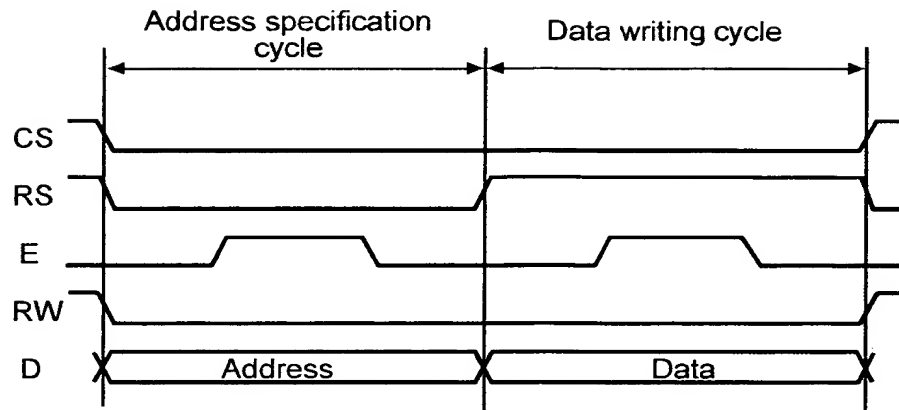


**FIG.2**

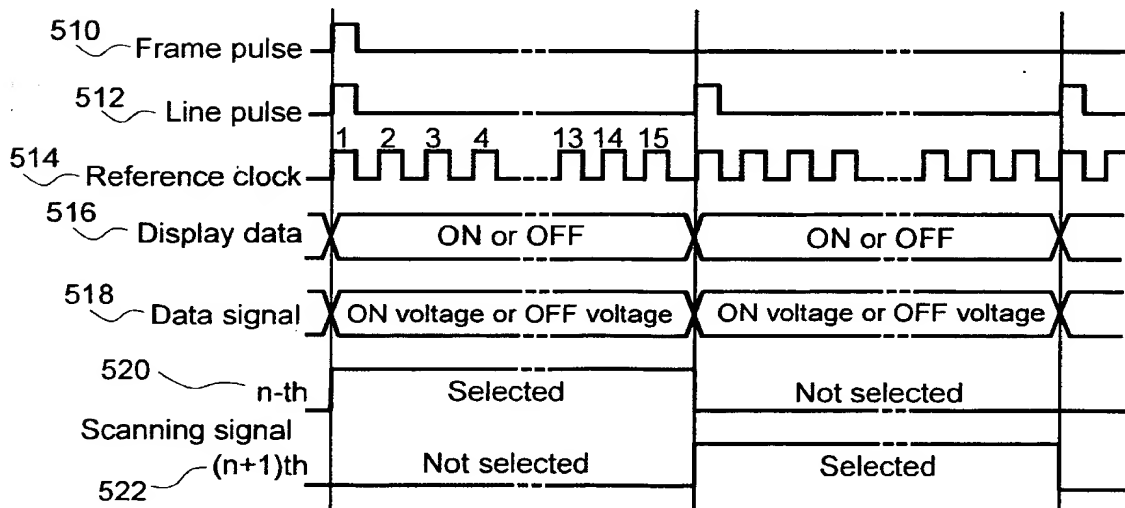




**FIG.4**

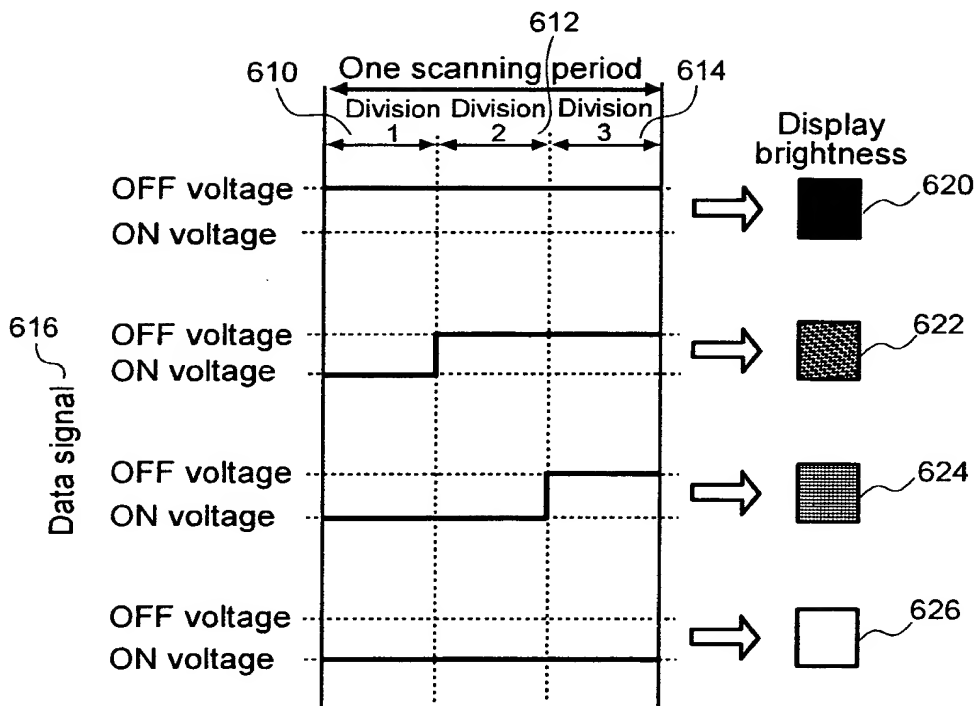


**FIG.5**



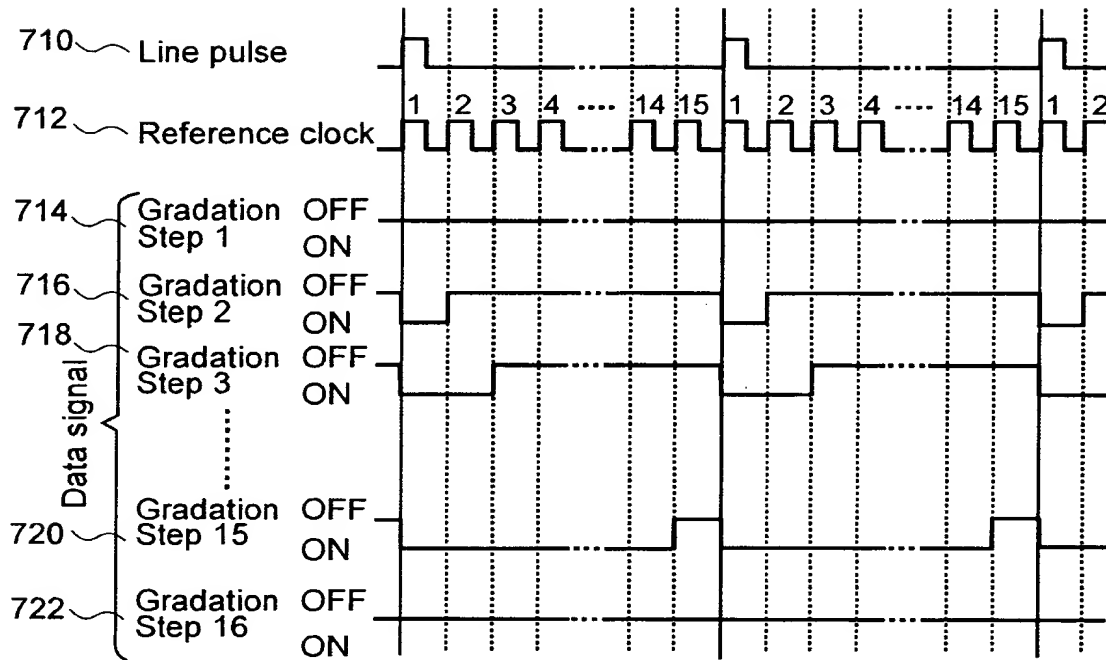


**FIG.6**



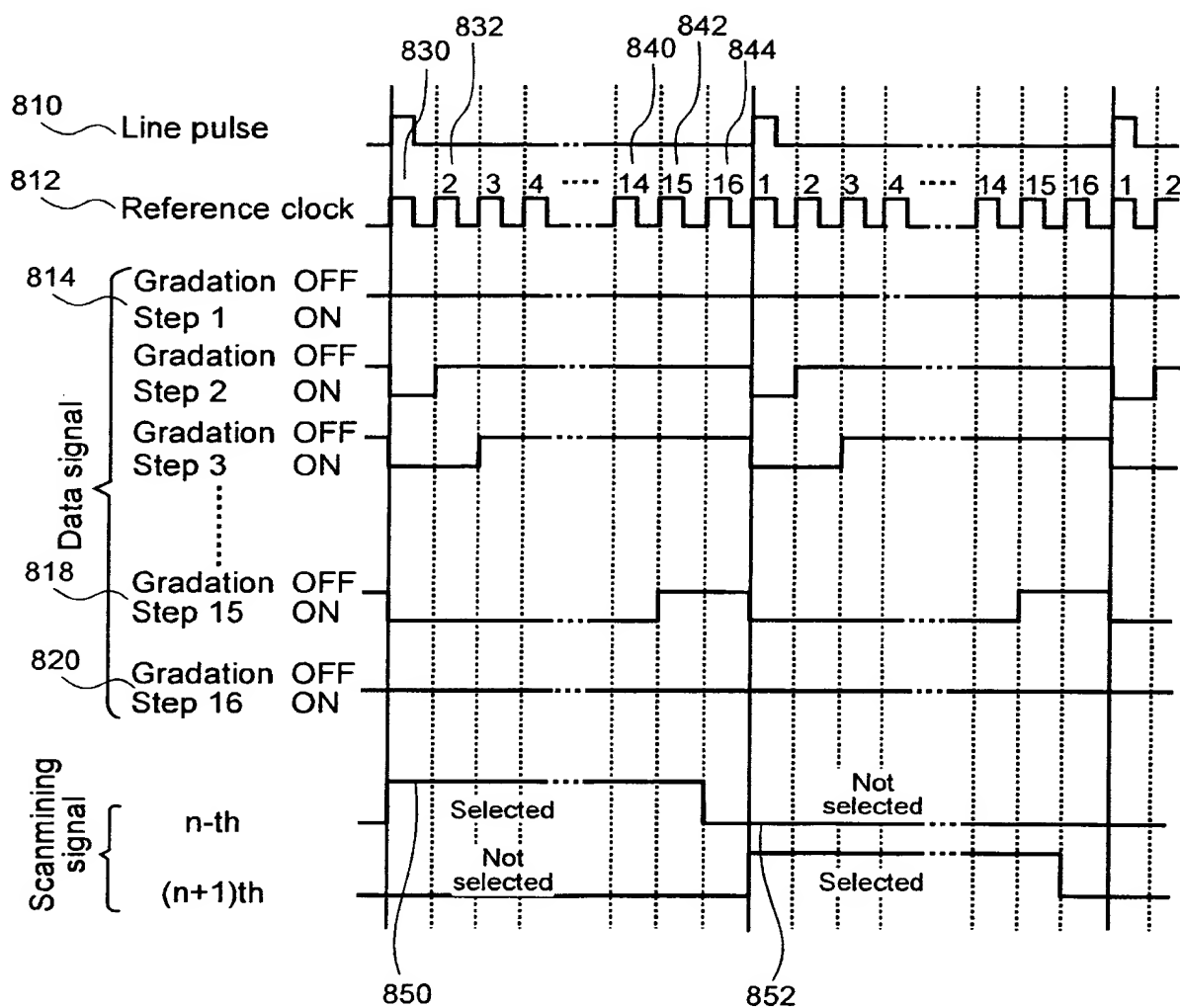


**FIG.7**



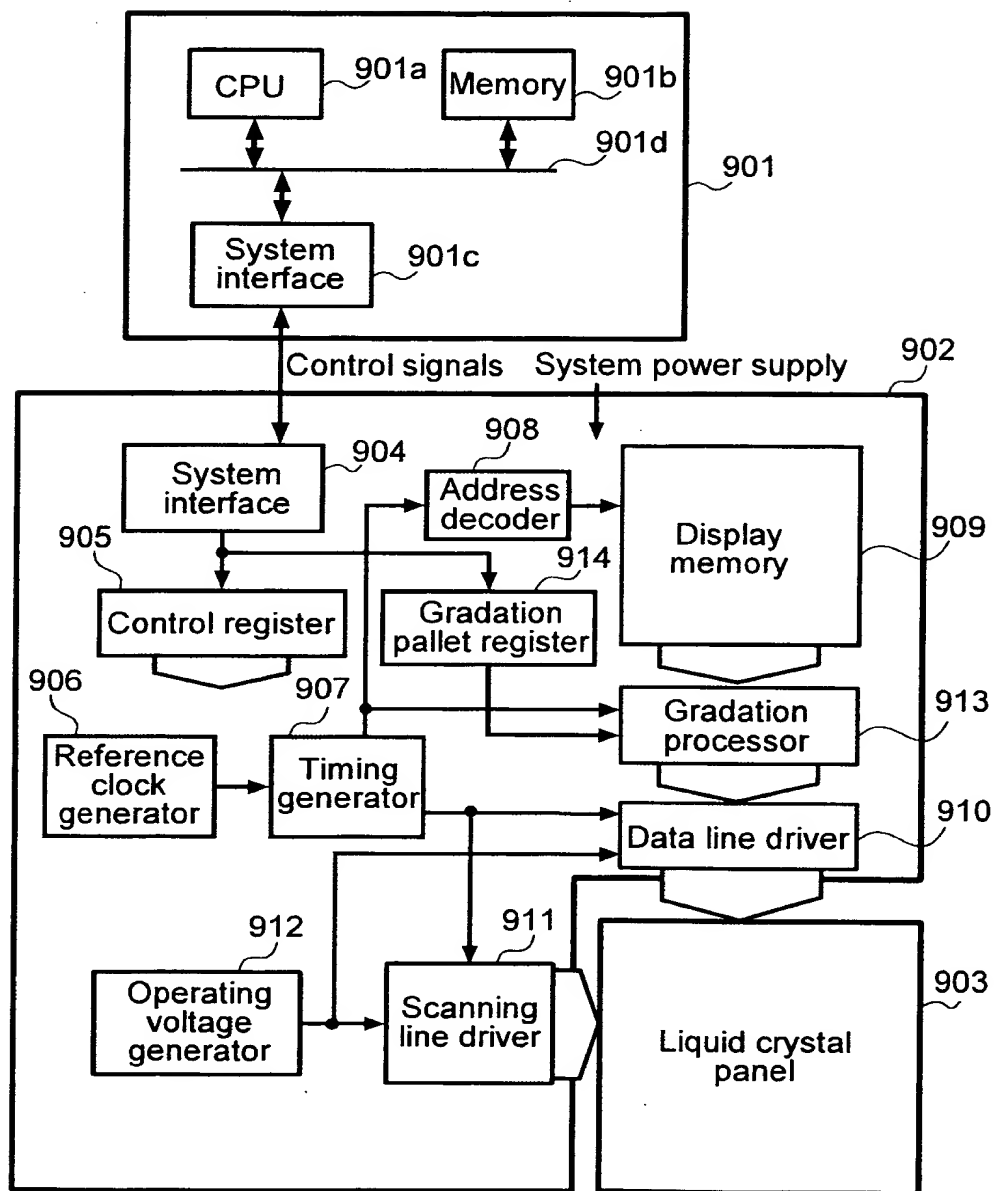


**FIG.8**



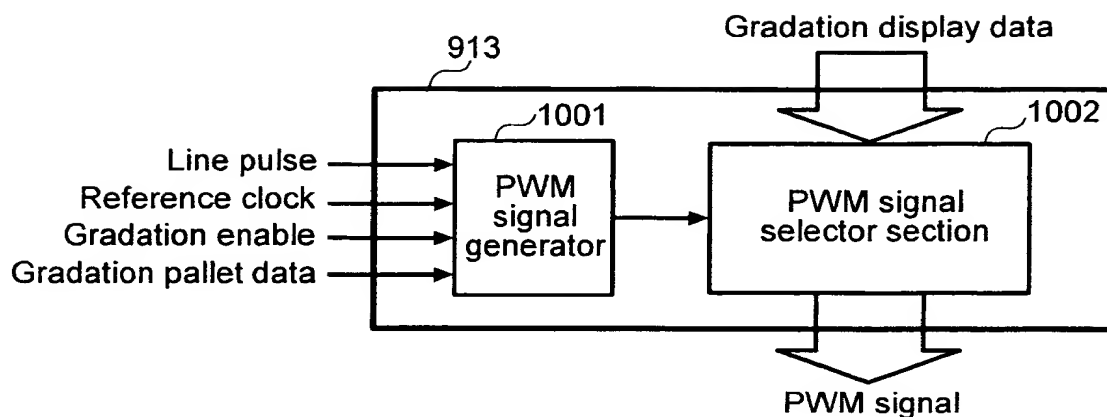


**FIG.9**

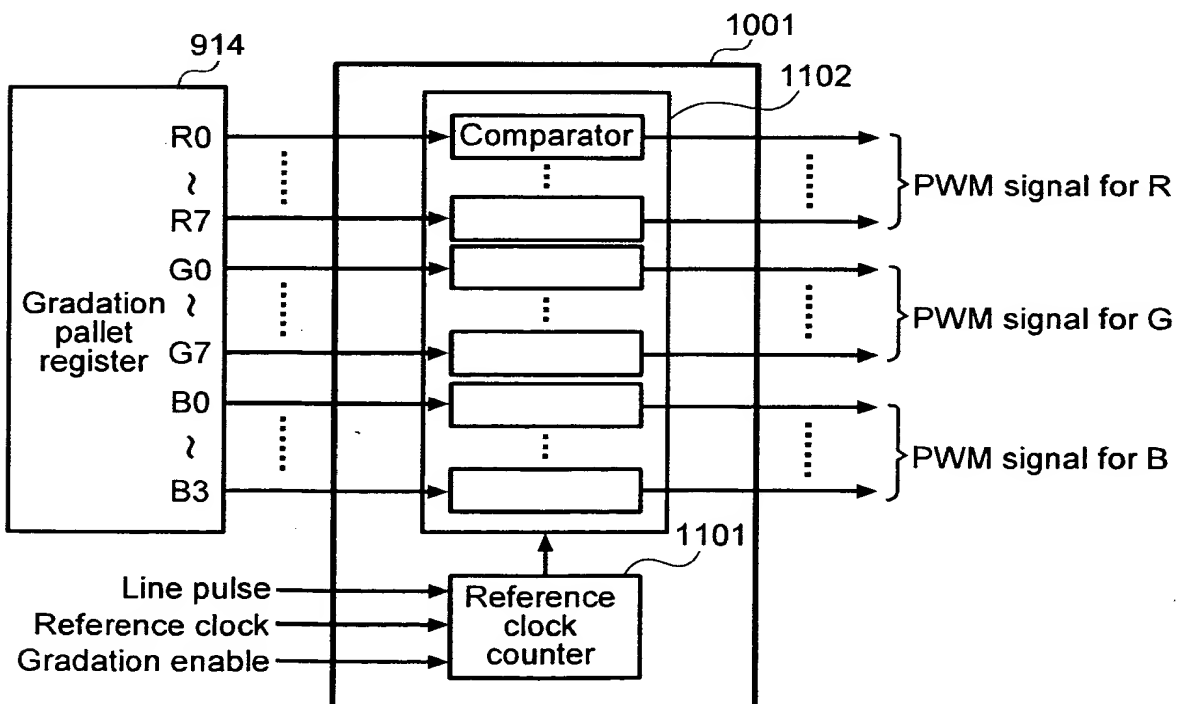




**FIG.10**



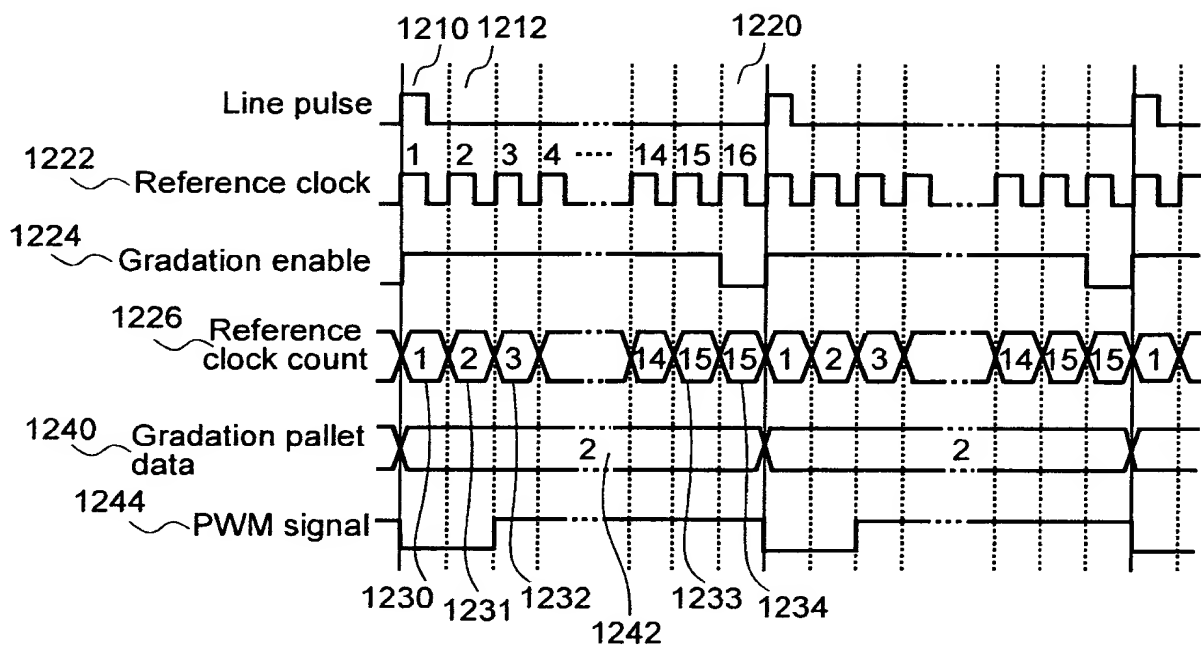
**FIG.11**



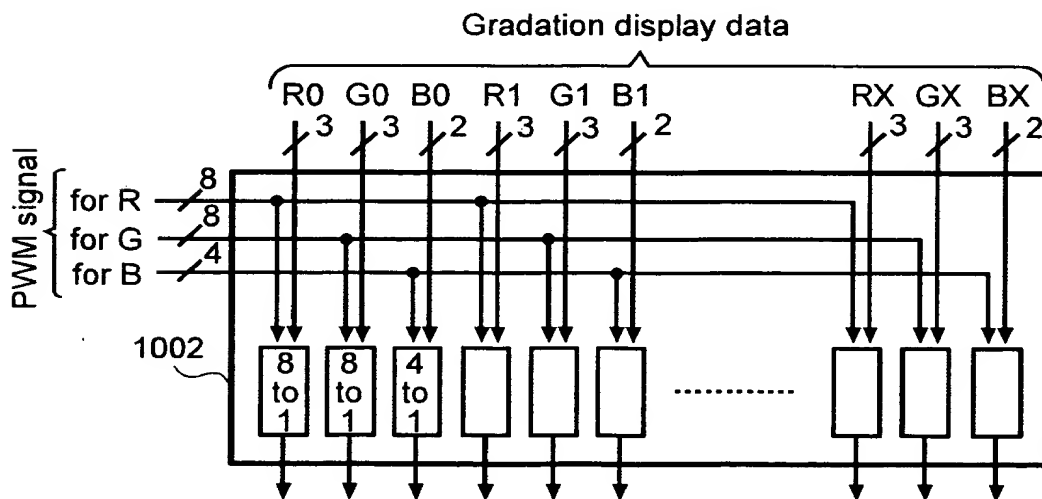




**FIG.12**

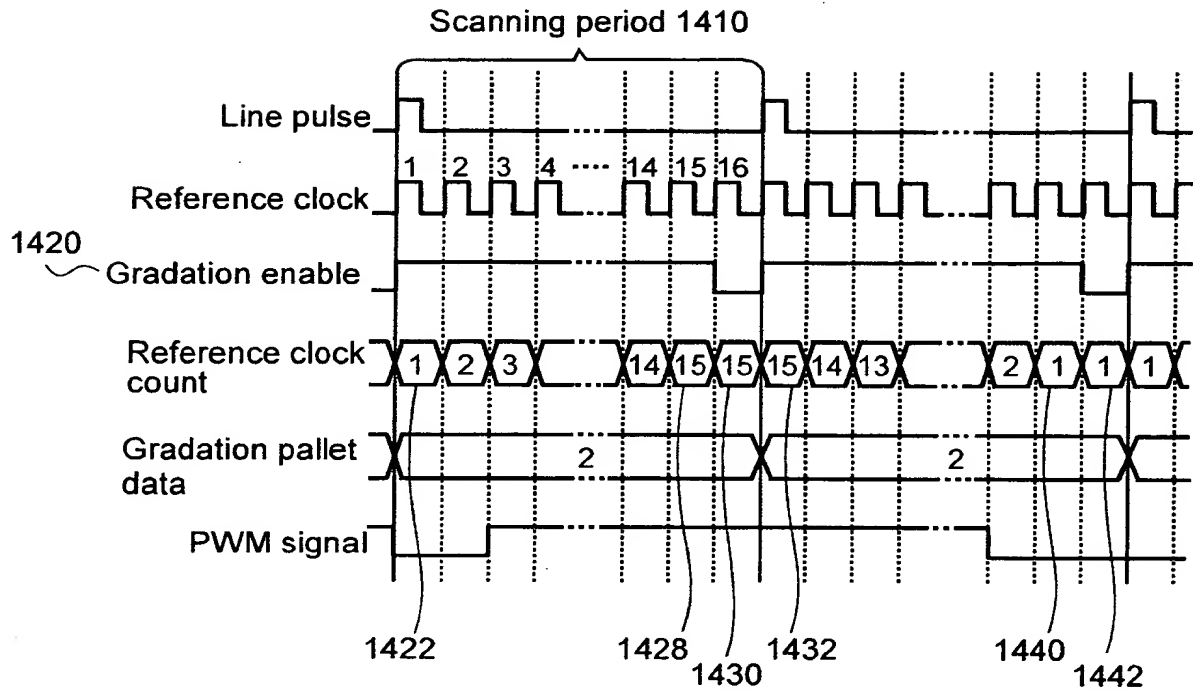


**FIG.13**





**FIG.14**



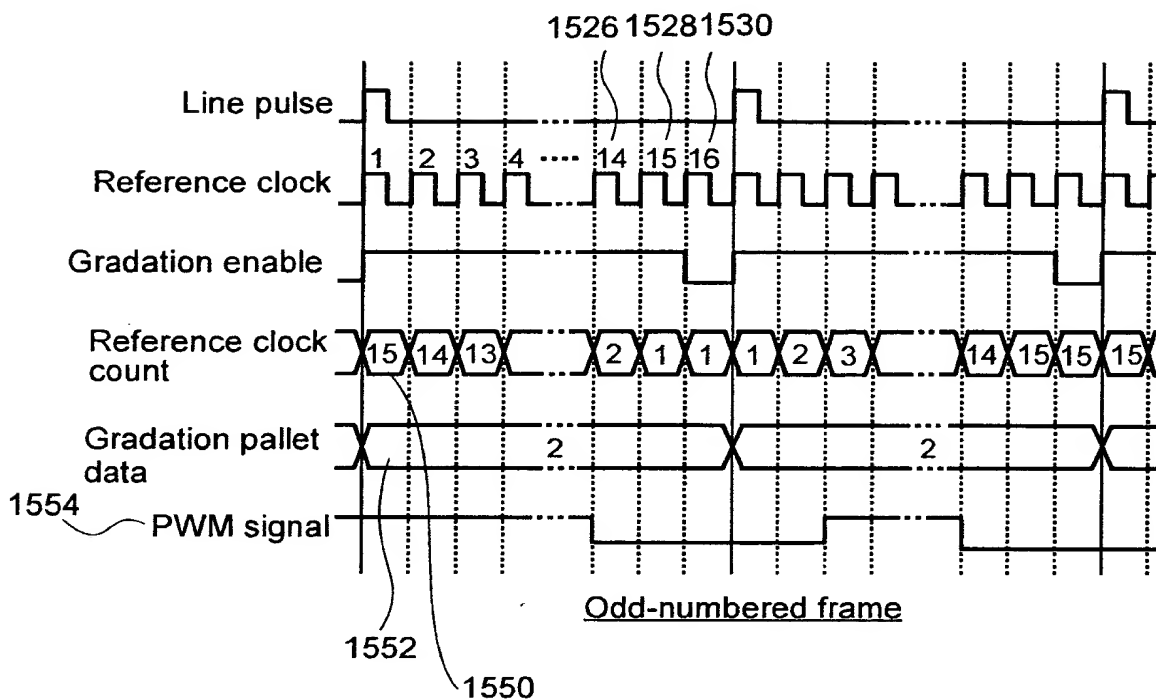
The diagram illustrates the timing for an even-numbered frame. The signals are as follows:

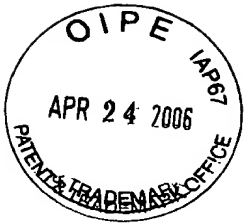
- Line pulse:** A pulse that is high during the first line (1512) and the last line (1522) of the frame.
- Reference clock:** A periodic clock signal. The first 16 lines are numbered 1 through 16.
- Gradation enable:** A signal that is high during the first 16 lines and the last 4 lines of the frame.
- Reference clock count:** A counter that increments from 1 to 16 during the first 16 lines, then resets to 1 for the last 4 lines.
- Gradation pallet data:** A signal that is high during the first 16 lines and the last 4 lines of the frame.
- PWM signal:** A pulse-width modulated signal that is high during the first 16 lines and the last 4 lines of the frame.

The diagram is labeled "Even-numbered frame" at the bottom.

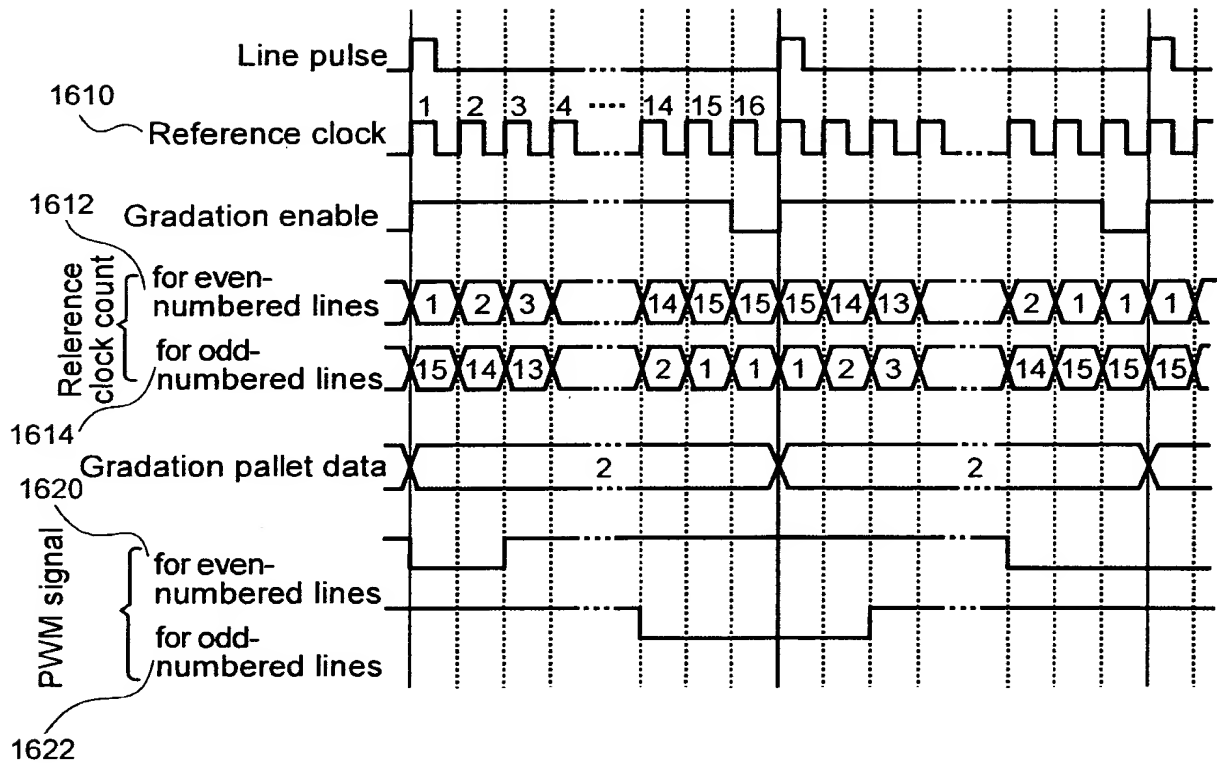


**FIG.15b**



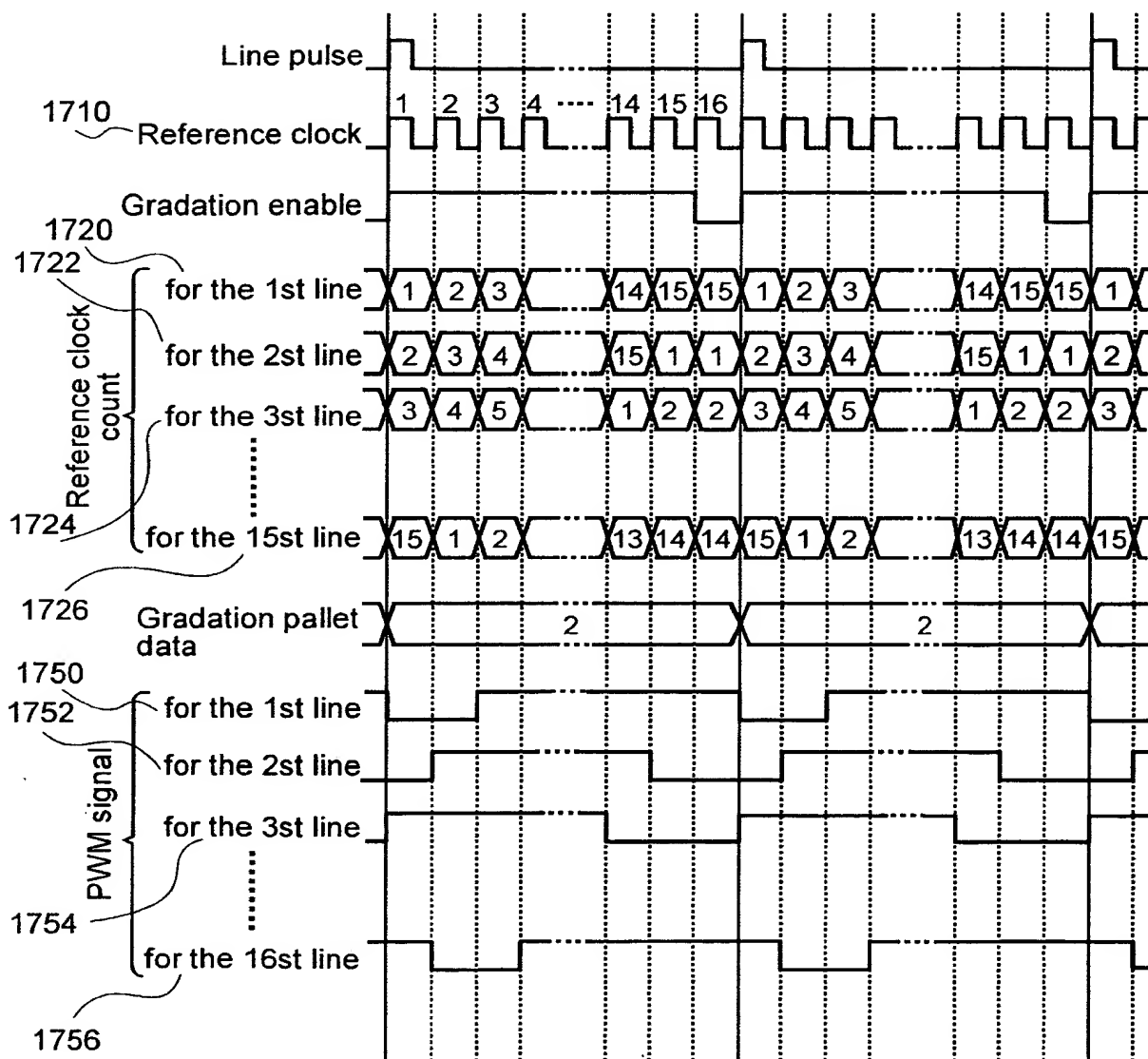


**FIG.16**



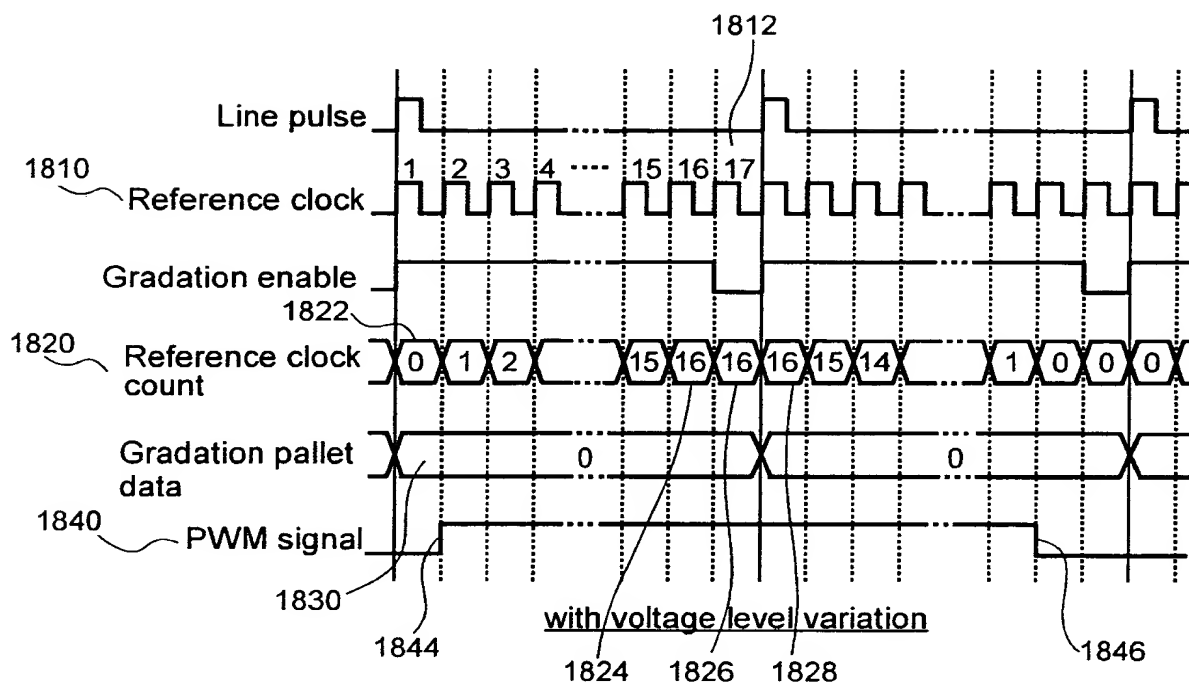


**FIG.17**



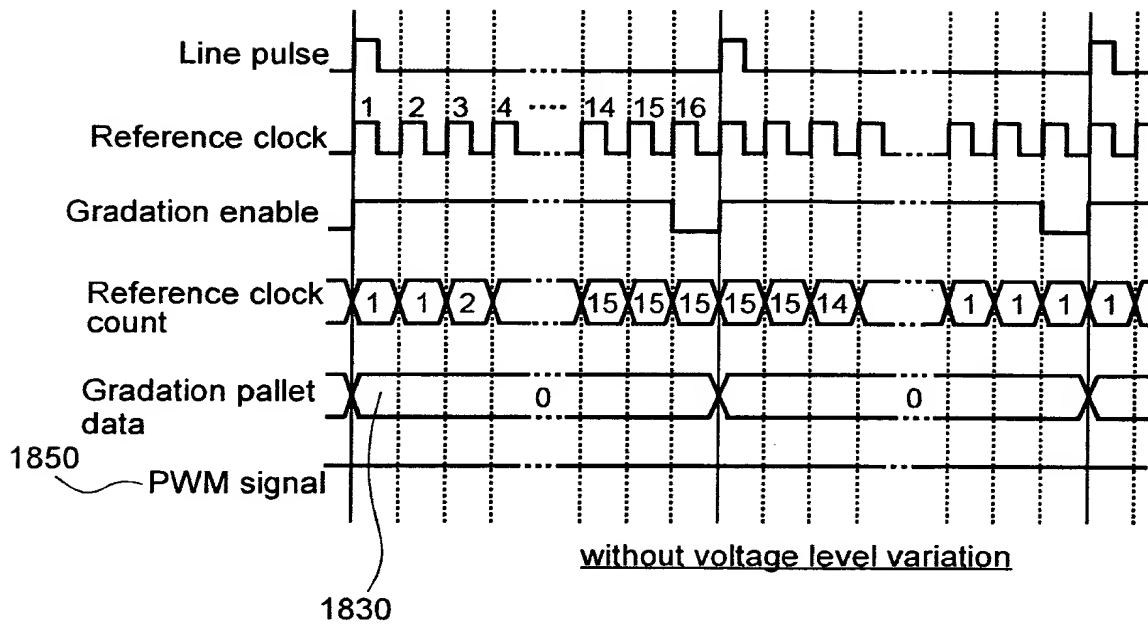


**FIG.18a**





**FIG.18b**







**FIG.19**

